

Curriculum Vitae of Denis Volkov

<http://science.jpl.nasa.gov/people/Volkov/>

Education

- November 18, 2004:** Ph.D. in Physical Oceanography, Utrecht University (Netherlands).
- May 30, 1999:** M.Sc. in Hydrometeorology, Saint-Petersburg State University (Russia).
- May 31, 1997:** B.Sc. in Hydrometeorology, Saint-Petersburg State University (Russia).

Professional Experience

- Sep 2006 – present:** postdoctoral researcher at NASA Jet Propulsion Laboratory, California Institute of Technology (Pasadena, USA).
- Aug 2005 – July 2006:** postdoctoral researcher at Collecte Localisation Satellite, Direction d'Océanographie Spatiale (Toulouse, France).
- Feb 2005 – July 2005:** postdoctoral Marie-Curie fellow Collecte Localisation Satellite, Direction d'Océanographie Spatiale (Toulouse, France).
- June 2000 – Aug 2004:** researcher in training at the Royal Netherlands Institute for Sea Research (Texel, Netherlands).
- July 1999 – Sept 1999:** engineer at the Arctic and Antarctic Research Institute (S.-Petersburg, Russia).
- May 1998 – Aug 1998:** half-time technician at the Arctic and Antarctic Research Institute (S.-Petersburg, Russia).

Research cruises

- September 2005:** International Arctic Research Centre (USA), NABOS-2005 Arctic expedition on board icebreaker “Kapitan Dranitsyn” (Russia).
- Sept – Oct 2000:** R/V Pelagia (Netherlands). Research cruise along the section AR7E in the northern North Atlantic.
- July – Aug 1998:** R/V Polarstern (Germany). TRANSDRIFT 5 cruise in the Laptev Sea.
- July – Aug 1997:** R/V Dalniye Zelentcy (Russia). Hydrographic works in the Barents Sea.
- July – Aug 1996:** R/V Nikolay Matusevich (Russia). Educational cruise in the Baltic Sea.

Postgraduate courses followed

- September 2005:** International Arctic Research Centre (USA) summer school on board icebreaker “Kapitan Dranitsyn” (Russia).
- September 2003:** Summer school on physical oceanography, Les Diablerets (Switzerland).
- May 2003:** course “Writing in English for publication” at the Utrecht University (Netherlands).
- December 2002:** course “Presenting in English” at the Utrecht University (Netherlands).

- February 2002:** course “Regional Oceanography” at the Utrecht University (Netherlands).
- September 2001:** introductory course in marine sciences for Ph.D. students at the University of Bremen (Germany).

List of publications

- Volkov, D.L.**, G. Larnicol, and J. Dorandeu, *Improving the quality of satellite altimetry data over continental shelves*, *J. Geophys. Res.*, 112, C06020, doi:10.1029/2006JC003765, 2007.
- Volkov D.L.** and H.M. van Aken, *Climate-related change of sea level in the extratropical North Atlantic and North Pacific in 1993-2003*, *Geophys. Res. Lett.*, 32, L14611, doi: 10.1029/2005GL023097, 2005.
- Volkov D.L.**, *The inter-annual variability of the altimetry-derived eddy field and associated surface circulation in the North Atlantic Ocean in 1993-2001*, *J. Phys. Oceanography*, V35, 2005.
- Volkov D.L.**, *Monitoring the sea level and surface circulation with satellite altimetry*, Ph.D. thesis, ISBN: 90-393-3862-0, 152 pp., 2004.
- Volkov D.L.**, *Propagating features in the eddy field of the North Atlantic Current*, *Geophys. Res. Lett.*, 31, L24305, doi:10.1029/2004GL021401, 2004.
- Volkov D.L.** and H.M. van Aken, *Low frequency change of sea level in the North Atlantic Ocean as observed with satellite altimetry*, in *Satellite Altimetry for Geodesy, Geophysics and Oceanography Series: International association of geodesy symposia*, Vol. 126, Hwang, Cheinway; Shum, C.; Li, Jiancheng (Eds.), 280 p., Springer-Verlag, 2004.
- Volkov D.L.** and H.M. van Aken, *Annual and inter-annual variability of sea level in the northern North Atlantic Ocean*, *J. Geophys. Res.*, 108, C6, 3204, 2003.
- Dmitrenko I.A., Gribanov V.A., **Volkov D.L.**, Kassens H., and Eicken H., *Impact of river discharge on the sea land fast ice extension in the Russian Arctic shelf area*, POAC 99, Proceedings, vol. 1, Espoo, Finland, 1999.
- Dmitrenko I.A., Gribanov V.A., **Volkov D.L.**, Berezovskaya S.L. and Kassens H., *Role of river discharge in the inter-annual variability of the sea land fast ice distribution in the Russian Arctic*, *Meteorologia i Hydrologia*, 2, 2000 (in Russian).

Submitted to peer-reviewed journals:

- Volkov D.L.** and Lee-Lueng Fu, *The role of vorticity fluxes in the dynamics of the Zapiola Anticyclone*, submitted, 2008.
- Carrere L., **D.L. Volkov**, P-Y. Le Traon, P. Schaeffer, C. Boone and Y. Faugère, *Reducing the aliasing of high frequency signals in altimeter data: empirical and model-based approaches*, *J. Atmos. Ocean. Tech.*, submitted, 2007.

Presentations at conferences/workshops/seminars

- March 2008:** Ocean Sciences Meeting, Orlando, Florida:
Volkov D.L. and L.-L. Fu: *The role of vorticity fluxes in the dynamics of the Zapiola Anticyclone*.
- January 2006:** Seminar at Jet Propulsion Laboratory, Pasadena CA:

- Volkov D.L. et al.** (oral): *Improving the quality of satellite altimetry data by reducing the impact of long wavelength errors.*
- May 2004:** Joint assembly of AGU, CGU, SEG and EGS in Montreal (Canada).
Volkov D.L. (oral): *The variability of sea level in the North Atlantic and North Pacific in 1993-2003 observed with satellite altimetry.* The presentation received an Outstanding Student Paper Award.
- April 2004:** European Geophysical Union general assembly in Nice (France).
Volkov D.L. (oral): *The comparative analysis of the sea level variability in the North Atlantic and North Pacific from 1993 to 2002.*
Volkov D.L. (poster): *Complex singular value decomposition analysis of eddy kinetic energy field in the North Atlantic Current.*
- November 2003:** Buys Ballot research school symposium (the Netherlands).
Volkov D.L. (poster): *Complex singular value decomposition analysis of eddy kinetic energy field in the North Atlantic Current.*
- September 2003:** Royal Netherlands Institute for Sea Research colloquium.
Volkov D.L., H.M. van Aken (oral): *The variability of sea level and surface circulation in the North Atlantic observed with satellite altimetry.*
- April 2003:** European Geophysical Society – American Geophysical Union joint assembly in Nice (France).
Volkov D.L. (oral): *Eddy field and its interannual variability in the North Atlantic Ocean as observed with satellite altimetry.*
- November 2002:** Buys Ballot research school symposium (the Netherlands).
Volkov D.L. (oral): *Three-zoned variability in the North Atlantic Current west of the Mid-Atlantic Ridge.*
- September 2002:** International workshop on satellite altimetry for geodesy, geophysics and oceanography in Wuhan (China).
Volkov D.L., H.M. van Aken (oral): *Low-frequency change of sea level in the North Atlantic Ocean as observed by satellite altimetry.*
- April 2002:** European Geophysical Society meeting in Nice (France).
Volkov D.L., H.M. van Aken (oral): *Annual and interannual variability of sea level in the northern North Atlantic Ocean.*
- November 2001:** Buys Ballot research school symposium (the Netherlands).
Volkov D.L., H.M. van Aken (oral): *Annual and interannual variability of sea level in the northern North Atlantic Ocean.*
- November 1999:** international workshop at Arctic and Antarctic Research Institute, Saint-Petersbourg, Russia.
Dmitrenko I.A., V.A. Gribanov, **D.L. Volkov**, S.L. Berezovskaya et H. Kassens (poster): *The role of hydrometeorological factors in the interannual variations of the fast ice extent in the Laptev Sea.*

Additional information

Languages spoken: Russian (native), English (fluent), French (upper-intermediate).

Computer skills: Windows & Linux OS, Matlab, Fortran, MS Office, Surfer, Grafer and other applications.

Teaching: Physical Oceanography of the Arctic Ocean (1999, Saint-Petersburg State University, 30 hours).